Language of Document: English
Patent (No,Kind,Date): US 5751304 A 19980512
INK JET RECORDING HAVING TEMPERATURE CONTROL FUNCTION (English)
Patent Assignee: CANON KK (JP)
Author (Inventor): HIRABAYASHI HIROMITSU (JP); OTSUKA NAOJI (JP); YANO KENTARO (JP); SUGIMOTO HITOSHI (JP); MATSUBARA MIYUKI (JP); TAKAHASHI KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 471473 A 19950606; JP 91193177 A 19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP 91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A 19920131; US 921832 B3 19920730
Applic (No,Kind,Date): US 471473 A 19950606
National Class: * 347017000; 347014000; 347023000
IPC: * B41J-002/05
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G 98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052; 170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6116709 A 20000912
INK JET RECORDING APPARATUS WITH TEMPERATURE CALCULATION BASED ON PRESTORED TEMPERATURE DATA (English)
Patent Assignee: CANON KK (JP)
Author (Inventor): HIRABAYASHI HIROMITSU (JP); OTSUKA NAOJI (JP); YANO KENTARO (JP); SUGIMOTO HITOSHI (JP); MATSUBARA MIYUKI (JP); TAKAHASHI KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 468875 A 19950606; JP 91193177 A 19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP 91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A 19920131; US 921832 B3 19920730
Applic (No,Kind,Date): US 468875 A 19950606
National Class: * 347014000; 347017000; 374141000
IPC: * B41J-029/38
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G 98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052; 170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6139125 A 20001031
INK JET RECORDING APPARATUS HAVING TEMPERATURE CONTROL FUNCTION (English)
Patent Assignee: CANON KK (JP)
Author (Inventor): OTSUKA NAOJI (JP); YANO KENTARO (JP); TAKAHASHI KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 468989 A 19950606; JP 91193177 A 19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP 91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A 19920131; US 921832 B3 19920730
Applic (No,Kind,Date): US 468989 A 19950606
National Class: * 347011000; 347014000; 347017000; 347060000
IPC: * B41J-002/05
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G 98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052; 170576M000067; 170576M000068; 170648M000058
Language of Document: English
Patent (No,Kind,Date): US 6193344 BA 20010227
INK JET RECORDING APPARATUS HAVING TEMPERATURE CONTROL FUNCTION (English)
Patent Assignee: CANON KK (US)
Author (Inventor): OTSUKA NAOJI (JP); YANO KENTARO (JP); TAKAHASHI

KIICHIRO (JP); IWASAKI OSAMU (JP)
Priority (No,Kind,Date): US 382955 A 19990825; JP 91193177 A 19910801; JP 91193187 A 19910801; JP 91194139 A 19910802; JP 91345052 A 19911226; JP 91345060 A 19911226; JP 9216526 A 19920131; US 468989 A3 19950606; US 921832 B3 19920730
Applic (No,Kind,Date): US 382955 A 19990825
National Class: * 347011000; 347010000
IPC: * B41J-002/01; B41J-002/04; B41J-002/045; B41J-002/05
Derwent WPI Acc No: * G 93-038505; G 98-232489; G 98-232490; G 98-252652
JAPIO Reference No: * 170316M000048; 170316M000051; 170316M000052; 170576M000067; 170576M000068; 170648M000058
Language of Document: English

UNITED STATES OF AMERICA (US)
Legal Status (No,Type,Date,Code,Text):

US 5745132	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193177 A	19910801
US 5745132	P	19910801	US AA	PRIORITY (PATENT)
			JP 91193187 A	19910801
US 5745132	P	19910802	US AA	PRIORITY (PATENT)
			JP 91194139 A	19910802
US 5745132	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345052 A	19911226
US 5745132	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345060 A	19911226
US 5745132	P	19920131	US AA	PRIORITY (PATENT)
			JP 9216526 A	19920131
US 5745132	P	19920730	US AA	PRIORITY
			US 921832 B1	19920730
US 5745132	P	19951107	US AA	PRIORITY
			US 553197 B1	19951107
US 5745132	P	19970623	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))
			US 880536 A	19970623
US 5745132	P	19980428	US A	PATENT
US 5745132	P	19990706	US CC	CERTIFICATE OF CORRECTION
US 5751304	P	19910801	US AA	PRIORITY (PATENT)
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US 5751304	P	19910801	US AA	PRIORITY (PATENT)
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US 5751304	P	19910802	US AA	PRIORITY (PATENT)
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US 5751304	P	19911226	US AA	PRIORITY (PATENT)
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US 5751304	P	19911226	US AA	PRIORITY (PATENT)
			JP 91345060 A	19911226
US 5751304	P	19920131	US AA	PRIORITY (PATENT)
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US 5751304	P	19920730	US AA	PRIORITY
			US 921832 B3	19920730
US 5751304	P	19950606	US AE	APPLICATION DATA (PATENT) (APPL. DATA (PATENT))
			US 471473 A	19950606
US 5751304	P	19980512	US A	PATENT
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US 6116709	P	19910801	US AA	PRIORITY (PATENT)
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US 6116709	P	19910802	US AA	PRIORITY (PATENT)
			JP 91194139 A	19910802

US 6116709 P 19911226 US AA PRIORITY (PATENT)
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US 6116709 P 19920131 US AA PRIORITY (PATENT)
JP 9216526 A 19920131
US 6116709 P 19920730 US AA PRIORITY
US 921832 B3 19920730
US 6116709 P 19950606 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 468875 A 19950606
US 6116709 P 20000912 US A PATENT
US 6116709 P 20010619 US CC CERTIFICATE OF CORRECTION
US 6139125 P 19910801 US AA PRIORITY (PATENT)
JP 91193177 A 19910801
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US 6139125 P 19950606 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 468989 A 19950606
US 6139125 P 20001031 US A PATENT
US 6139125 P 20010529 US CC CERTIFICATE OF CORRECTION
US 6193344 P 19910801 US AA PRIORITY (PATENT)
JP 91193177 A 19910801
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JP 91345060 A 19911226
US 6193344 P 19920131 US AA PRIORITY (PATENT)
JP 9216526 A 19920131
US 6193344 P 19920730 US AA PRIORITY
US 921832 B3 19920730
US 6193344 P 19950606 US AA PRIORITY (DIVISION)
US 468989 A3 19950606
US 6193344 P 19990825 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 382955 A 19990825
US 6193344 P 20010227 US BA PATENT (NO PREVIOUS
PRE-GRANT PUBLICATION)
US 6193344 P 20011113 US CC CERTIFICATE OF CORRECTION

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